

**WAVELENGTH AND FILTER ARRANGEMENT FOR
WDM NETWORKS**

ABSTRACT OF THE DISCLOSURE

In a ring having first and second adjacent nodes, and two fibers carrying
5 information between the first and second nodes, the first fiber carries information in one
direction, while the second fiber carries information in another direction. Each fiber includes
wavelength capacity allocated to working and protection traffic. The working and protection
wavelength capacities in the first fiber are respectively assigned to first and second disjoint
sets of wavelengths, while the working and protection wavelength capacities in the second
10 fiber are respectively assigned to the second and first disjoint sets of wavelengths.

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